

Name: \_\_\_\_\_

## DRT classwork #1!!!

**1. The Situation:** Darren leaves the park at 12:30 pm. Nigel notices that he forgot his skateboard and leaves at 1:30 pm to catch up to him. Nigel is traveling at a speed that is 20 mph faster than Darren's speed. If they meet up at 3:30 pm, what was Darren's average rate? What was Nigel's?

**1. What type of DRT Problem is this?**

**2. Write the GENERAL equation for this type of problem.**

**3. Define a variable for Darren's average rate.**

**4. Fill in the DRT Table below.**

	rate	time	Distance
Darren			
Nigel			

**5. Using the GENERAL equation from #2 and your table, write an equation for the situation.**

**6. Solve the equation.**

WHAT IS DARREN'S AVERAGE RATE? \_\_\_\_\_

WHAT IS NIGEL'S AVERAGE RATE? \_\_\_\_\_

**2. The Situation:** Lydia leaves school at 3:15 pm and walks at a speed of 6 mph. Helena leaves at 3:45 pm and rides her bike at a speed of 16 mph in order to catch up to Lydia. AT WHAT TIME will Helena catch up to Lydia?

**1. What type of DRT Problem is this?**

**2. Write the GENERAL equation for this type of problem.**

**3. Define a variable for Lydia's travel time.**

**4. Fill in the DRT Table below.**

	rate	time	Distance

**5. Using the GENERAL equation from #2 and your table, write an equation for the situation.**

**6. Solve the equation.**

**AT WHAT TIME WILL HELENA CATCH UP TO LYDIA? \_\_\_\_\_**